

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An apparatus comprising:

an antenna;

an AlGaN amplifier connected to the antenna, wherein the amplifier includes a plurality of AlGaN amplifiers connected such that a drain and a gate of the plurality of amplifiers have a common source;

a first switch that connects a transmit path of the antenna to the amplifier;

a second switch that connects a receive path of the antenna to the amplifier; and

a switch controller that is programmed to adjust positions of the first and second switches so that the amplifier is connected to the transmit or receive path of the antenna after a predetermined amount of time has elapsed since a prior adjustment.

2. (Previously Presented) The apparatus of claim 1, wherein the first switch has an output connected to the amplifier, a first input connected to the receive path and a second input connected to the transmit path.

3. (Previously Presented) The apparatus of claim 2, wherein the second switch has a first switch position connecting a signal for transmission to the antenna, and a second switch position connecting the receive path to the antenna.

4. (Previously Presented) The apparatus of claim 3, wherein the switch controller controls the first and second switches to selectively connect the antenna to the amplifier for amplification of a received signal and the amplifier to the antenna for amplification of a signal for transmission.

5. (Original) The apparatus of claim 1, wherein the AlGa_N amplifier comprises three AlGa_N amplifiers.

6. (Original) The apparatus of claim 5, wherein the AlGa_N amplifiers are wide band gap high electron mobility transistors.

7. (Original) The apparatus of claim 5, wherein the AlGa_N amplifiers are monolithic microwave integrated circuits.

8. (Currently Amended) A method for transmission and reception of signals using a transceiver that includes an antenna, first and second switches, and an AlGa_N amplifier that includes a plurality of AlGa_N amplifiers connected such that a drain and a gate of the plurality of amplifiers have a common source, the method comprising:

setting the first switch to a first position, the first position connects a signal for transmission to the amplifier;

setting the second switch to a first position, the first position connects the amplified signal for transmission to the antenna;

setting the second switch, after a predetermined amount of time, to a second position, the second position connects a signal received from the antenna to a receive path of the transceiver; and

setting the first switch, after the predetermined amount of time, to a second position, the second position connecting the receive path to the amplifier.

9. (Original) The method of claim 8, wherein when the second switch is in the second position the amplified signal from the receive path is connected to receiver circuitry.